***COMPLETE IN NOTEBOOK! COPY ALL FIGURES!***

CW39/HW39: Area of Composite Figures

**Geometry**

**READ ALL DIRECTIONS! Failure to show** ALL WORK, COPY ALL FIGURES **and follow** all directions COMPLETELY **will result in LaSalle.**

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| You will be able to compute the area of composite figures by adding or subtracting areas. | |
| Criteria for Success: Did you…   * Break the shape into smaller, recognizable shapes * Chose the correct formula for each shape. * Use either addition or subtraction to find the total area of the shape. * Examine your answer: Does it make sense? Does it answer the question? | |
| 1. *ABDE* is a square with a side length of 9 units. If *ED* = *DC*, what is the area of?  *A*  *B*  *D*  9    *C*  *E* | 2. A new racetrack is being designed and will be composed of a long rectangle with a semi-circle on each of the shorter sides as shown in the diagram below. All measurements are given in yards. What is the area of the racetrack?  75  20 |
| 3. Find the area of the figure below. | 4. Find the area of the figure below. |
| Directions: Find the area of the composite figures below. COPY ALL FIGURES INTO YOUR NOTEBOOK & SHOW ALL WORK – failure to do so will result in a LaSalle. | |
| 5. | ../../../../../Desktop/Screen%20Shot%202015-11-01%20at%2012.37.26%20PM6. |
| ../../../../../Desktop/Screen%20Shot%202015-11-01%20at%2012.37.50%20PM7. | ../../../../../Desktop/Screen%20Shot%202015-11-01%20at%201.01.32%20PM8. |
| ../../../../../Desktop/Screen%20Shot%202015-11-01%20at%2012.38.03%20PM9. | ../../../../../Desktop/Screen%20Shot%202015-11-01%20at%2012.40.37%20PM10. |
| ../../../../../Desktop/Screen%20Shot%202015-11-01%20at%2012.44.01%20PM11. | ../../../../../Desktop/Screen%20Shot%202015-11-01%20at%2012.42.57%20PM12. |
| Challenge Problems | |
| 1. Create a word problme about a real-word situation involving perimeter and area of a composite shape. 2. Draw and label two composite shapes that have the same area, but have different perimeters. | In the quadrilateral ABCD shown below, the side lengths are as shown. If the area of ABCD is 198 square units, what is the value of x?  A  B  C  D  4x  7x  5x  4x |